



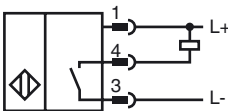
Model Number

NEB3-8GM50-E-V3

Features

- 3 mm quasi-embeddable
- Increased operating distance

Connection



Pinout



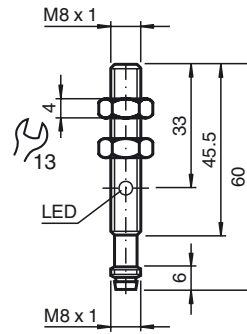
Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)

Accessories

- BF 8**
Mounting flange, 8 mm
- V3-GM**
Female connector, M8, 3-pin, field attachable
- V3-WM**
Female connector, M8, 3-pin, field attachable
- V3-GM-2M-PUR**
Cable socket, M8, 3-pin, PUR cable
- V3-WM-2M-PUR**
Cable socket, M8, 3-pin, PUR cable

Dimensions



Technical Data

General specifications

Switching element function		NPN	NO
Rated operating distance	s_n	3 mm	
Installation		quasi embedd.	
Output polarity		DC	
Assured operating distance	s_a	0 ... 2.43 mm	
Reduction factor r_{AI}		0.36	
Reduction factor r_{Cu}		0.27	
Reduction factor r_{304}		0.77	

Nominal ratings

Installation conditions	
A	0 mm
B	6 mm
C	9 mm
F	16 mm
Operating voltage	U_B 10 ... 30 V
Switching frequency	f 0 ... 1000 Hz
Hysteresis	H typ. 5%
Reverse polarity protected	reverse polarity protected
Short-circuit protection	pulsing
Voltage drop	U_d \leq 2 V
Operating current	I_L 0 ... 200 mA
Off-state current	I_r 0 ... 0.1 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0 \leq 10 mA
Indication of the switching state	LED, yellow

Functional safety related parameters

MTTF _d	311 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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Mechanical specifications

Connection type	Device connector M8 x 1, 3-pin
Housing material	chromium plated brass
Sensing face	PBT
Protection degree	IP67

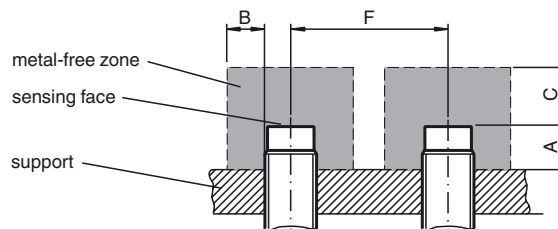
Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Products with a maximum operating voltage of \leq 36 V do not bear a CCC marking because they do not require approval.

Installation conditions



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